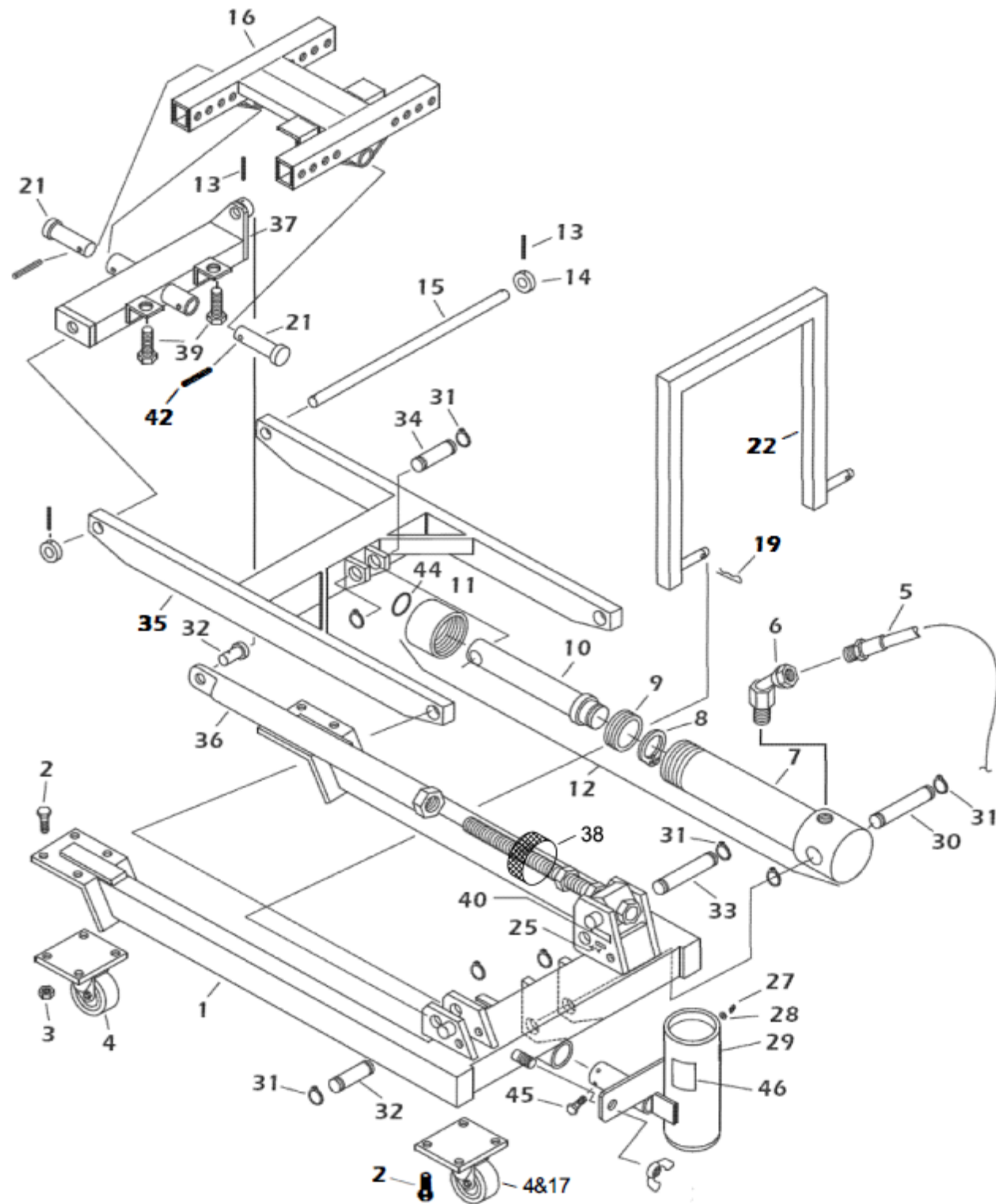


RBT18640 JACK ASSEMBLY




RBT18640 JACK ASSEMBLY PARTS LIST

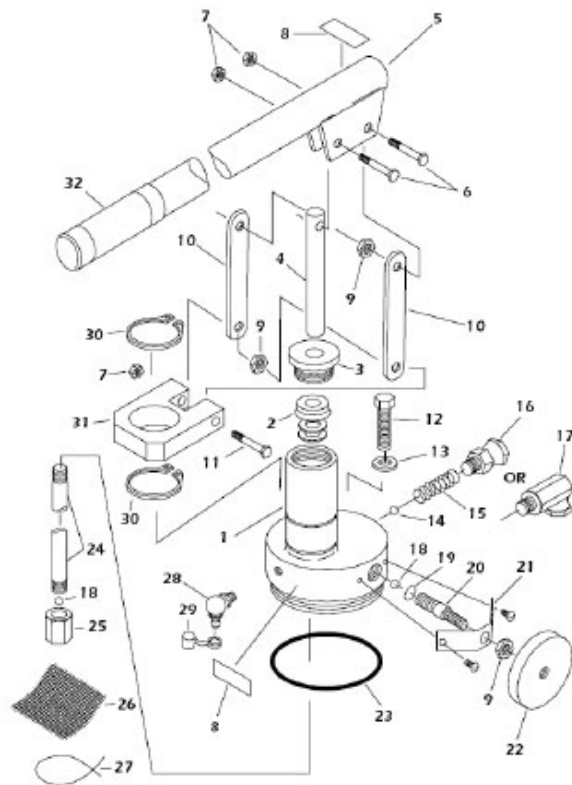
ITEM #	QTY	DESCRIPTION	PART #
1	1	MAIN FRAME	TTJ3-L
2	16	3/8-16 x 1 UNC HEX HEAD CAP SCREW	6252
3	8	3/8-16 UNC HEX NUT	6025
4	4	Ø4 in. WHEEL, SWIVEL CASTER, w/ WHEEL BRAKE	-4
5	1	HYD. HOSE	MH-13
6	1	45° HYD. FITTING	5635
7	1	HYD. RAM CYLINDER	RC-TTJ3
8	1	SNAP RING	6725
9	1	HYD. SEAL SET	HSS-200
10	1	HYD. RAM SHAFT	RS-TTJ3
11	1	CYLINDER CAP	9680
12	1	HYD. RAM ASSEMBLY	MR-TTJ3
13	3	1/8 x 1-1/2 SPRING PIN	6949
14	2	PIVOT PIN RETAINER	9617
15	1	SADDLE SUPPORT ARM PIN	TTJ-16
16	1	SIDE TILT SADDLE	TTJ-F
17	2	CASTOR SWIVEL LOCK	-17
19	1	HAIR PIN COTTER PIN	6840
21	2	SADDLE TILT PIN	TTJ-60
22	1	PUSH-HANDLE	TTJ-I
24	1	PUMP ASSEMBLY (NOT SHOWN)	MP-TTJ
25	1	BRASS TAG W/ RIVETS	7890
27	1	5/16-24 x 1/2 UNF HEX HEAD CAP SCREW	6235
28	1	TEFLON WASHER	5400
29	1	OIL FILL LABEL	8050
30	1	CYLINDER PIVOT PIN	TTJ-41
31	8	3/4 in. EXTERNAL SNAP RING	6710
32	1	SMALL ARM/FRAME PIVOT PIN	TTJ-38
33	1	LONG ARM/FRAME PIVOT PIN	TTJ-40
34	1	SHAFT PIVOT PIN	TTJ-39
35	1	LIFT ARM WELDMENT	TTJ3-H
36	1	IN-LINE TILT PIPE	TTJ-B
37	1	SADDLE SUPPORT	TTJ-G
38	1	TILT KNOB ASSEMBLY	-38
39	2	3/4-10 x 2 UNC KNURLED SCREW	-39
40	1	CAPACITY STICKER	8110
42	2	1/4 x 1-1/2 SPRING PIN	6960
43	1	HYD. REPAIR KIT (NOT SHOWN)	K-200
44	1	WIPER RING	5312
45	1	5/16-18 x 1 UNC SPECIAL HEX HEAD CAP SCREW	6220
46	1	OIL INSTRUCTIONS STICKER	8051

NOTE:

CAGE CODE: 3AL64

E	UPDATED TO DART STANDARDS			SAD	22.07.20
DESIGN	SAD	<div>UNLESS OTHERWISE NOTED</div> <div>DIMENSIONS IN INCHES</div> <div>TOLERANCES: X.X = ±0.1 / ±1.0° X.XX = ±0.01 / ±0.5° X.XXX = ±0.005 / ±0.1° X.XXXX = ±0.0005 / ±0.05° PARALLELISM, ECCENTRICITY, AND SYMMETRY ABOUT ALL CENTER LINES = ±0.005</div> <div>BREAK SHARP EDGES: 0.005 - 0.010</div>	<div>DART AEROSPACE LTD</div> <div>HAWKESBURY, ONTARIO, CANADA</div>		
DRAWN	SAD		DRAWING NO. REV. A		
CHECKED	MB		RBT18640 SHEET 1 OF 2		
MFG. APPR.	JFS		TITLE SCALE		
APPROVED	<i>SAD</i>		JACK ASSEMBLY INSPECTIONS NTS		
DE APPR.	N/A				
DATE	22.07.20		THIRD ANGLE PROJECTION	<div>COPYRIGHT © 2022 BY DART AEROSPACE LTD</div> <div>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</div>	

RBT18640-P PUMP ASSEMBLY

**Pump Seal Installation**

1. Put the thinner 18 gauge spacing washer into the pump chamber. Then put in the thicker 14 gauge spacing washer.
2. Carefully install the poly-pak seal with the lip down. Use a dull screw driver and go around the outside edges of the seal forcing slightly inwards and down. Make sure the seal lip doesn't become cut by the chamber's threads. Pack the seal down snugly against the washers.
3. Screw in the packing nut to where it bottoms out. Tighten about one-eighth turn to lock it in place.
4. Before inserting the pump piston, use the little wire gauge from the kit to check for a proper gap between the bottom of the packing nut and the top of the seal.
 - * The gap must be at least the thickness of the wire, but never to where the wire can move up and down more than 1/16 inch.
 - * Use any spacing washer combination to achieve a proper gap, but never remove all the washers. All spacing washers must be below the seal.

Ref. No.	Part No.	Description
1.	P-BTTJ	Pump Body
2.	HSS-100B	Hydraulic Seal Set (Seal & 2 washers)
3.	9815	Pump Packing Nut
4.	P-5	Pump Piston
5.	PP-D	Pump Handle
6.	6225	Special Handle Bolt (2 per pump)
7.	6020	Nut (3 per pump)
8.	8052	Blue Cap Sticker (2 per pump)
9.	6027	Jam Nut (3 per pump)
10.	P-8	Handle Link (2 per pump)
11.	6220	Special Link Bolt
12.	6260	Pump Retaining Bolt (all-threaded)
13.	6615	Brass Flat Washer
14.	5915	5/16" Exhaust Ball Bearing
15.	5935	Exhaust Spring
16.	5630	Straight Swivel Fitting
17.	5640	90 Degree Swivel Fitting
18.	5910	1/4" Ball Bearing (2 per pump)
19.	5220	Release Valve O-Ring
20.	9820	Release Valve Stem
21.	P-RRR	Release Retainer & Screw
22.	9825	Release knob
23.	5240	Reservoir Sealing O-Ring
24.	P-(+LENGTH)	Intake Tube
25.	9835	Intake Valve Body
26.	IS-250	Intake Screen
27.	P-19	Intake Screen Tie Wire
28.	P-13	Reservoir Air Breather Fitting
29.	5920	Blue Breather Cap
30.	6720	1.25 Snap Ring (2 per pump)
31.	9840	Handle Link Anchor
32.	7880	1" Black Grip

K-series Repair Kits Include; #2, #3, #4, #6 (x2), #7 (x3), #11, #13, #14, #15, #18 (x2), #19, #23.

Pump Service Instructions**JACK DOESN'T RAISE, OR RAISE FULLY:**

- * Make sure the No. 29 Blue Breather Cap isn't covering the No. 28 Reservoir Air Breather Fitting (If your pump has this air breather system). Never put grease in this fitting.
- * Check the oil level in the reservoir with the unit in an upright position; and in a fully collapsed or lowered position. If oil runs out of the filler hole when you remove the bolt, let the excess oil drain out. Only use MIL-H-83282 Hydraulic Fluid.

PUMP HANDLE 'POPS UP', OR THE JACK'S LIFTING MECHANISM 'BOBS' UP AND DOWN.

- * Open the No. 20 Release Valve about one turn. Vigorously jack the No. 5 Pump Handle up and down (full strokes) about 8 times. This should flush any foreign matter stuck between the No. 14 Exhaust Ball and its seat.

**RBT18640 JACK ASSEMBLY
MAINTENANCE & SAFETY INSPECTION SCHEDULE****BEFORE AND AFTER EACH USE:**

ALWAYS CHECK FOR DAMAGED OR BADLY WORN ITEMS (INCLUDING THE HYDRAULIC HOSE) THAT MAY COMPROMISE THE SAFE USAGE OF THE LIFTING EQUIPMENT. NEVER USE THE EQUIPMENT UNTIL ALL SUCH ITEMS HAVE BEEN REPAIRED OR REPLACED WITH ONLY APPROVED PARTS!

YOUR EQUIPMENT SHOULD BE LEFT IN A HYDRAULICALLY COLLAPSED POSITION AND THE PUMP PISTON IN A DOWN POSITION WHEN NOT BEING USED.

MONTHLY:

AT LEAST ONCE A MONTH JACK THE EQUIPMENT TO A FULL EXTENSION POSITION AND THEN LOWER COMPLETELY. THIS WILL LUBRICATE THE HONED CYLINDER WALL. YOU MAY CONSIDER A MORE FREQUENT SCHEDULE IF THE EQUIPMENT IS USED IN A VERY HUMID ENVIRONMENT.

YEARLY:

GREASE OR OIL CASTER RACES AND AXLES, AS WELL AS ANY PIVOT PINS. OIL THE PUMP HANDLE BOLTS AND THE PUMP LINKAGE BOLT.

CHECK FOR ANY EXCESSIVE WEAR OR DAMAGE TO ANY PART (INCLUDING THE HYDRAULIC HOSE) ON THE EQUIPMENT. REPAIR OR REPLACE WITH ONLY APPROVED PARTS WHEN NECESSARY.

EVERY FIVE YEARS:

CHANGE THE HYDRAULIC OIL EVERY FIVE YEARS OR SOONER IF THE EQUIPMENT HAS LONG TERM EXPOSURE TO A DUSTY OR VERY HUMID ENVIRONMENT. USE ONLY HYDRAULIC JACK OIL MIL-H-83282 HYDRAULIC FLUID.

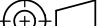
TESTING INSTRUCTIONS:

LOWER THE JACKING PLATFORM COMPLETELY AND PLACE THE RBT18640-101-F01 JACK TESTING FIXTURE ON THE JACKING PLATFORM. PLACE A 400 lb. TEST WEIGHT ON THE TESTING FIXTURE, BE SURE THAT THE WEIGHT AND TESTING PLATE ARE CENTERED ON THE JACKING PLATFORM. RAISE THE PLATFORM AT LEAST 2/3 IT'S TOTAL LIFTING HEIGHT AND WAIT 5 MINUTES. CAREFULLY OBSERVE ALL COMPONENTS OF THE JACK FOR ANY BENDING, DISTORTIONS, OR LEAKING FLUID DURING THIS TIME. AFTER 5 MINUTES LOWER THE JACKING PLATFORM AND REMOVE THE TESTING WEIGHT.

RE-INSPECT THE ENTIRE UNIT.

SPECIFICATIONS

MODEL	RBT18640
CAPACITY	3000 lbs.
LIFT SADDLE LOW	3-1/2 in.
LIFT SADDLE HIGH	36 in.
ARM WIDTH	23-1/4 in.
SIDE TILT	12°
FRONT & REAR TILT	25°
FRAME LENGTH	45 in.
FRAME WIDTH	31 in.
FRAME HEIGHT	14-1/2 in.
WEIGHT	295 lbs.

DESIGN	SAD	UNLESS OTHERWISE NOTED DIMENSIONS IN INCHES TOLERANCES: XX = ±0.1 / ±1.0° XXX = ±0.01 / ±0.5° XXXX = ±0.005 / ±0.1° X.XXXX = ±0.0005 / ±0.05° PARALLELISM, ECCENTRICITY, AND SYMMETRY ABOUT ALL CENTER LINES = ±0.005 BREAK SHARP EDGES: 0.005 - 0.010	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		DRAWING NO.	REV. A
CHECKED	MB		RBT18640	SHEET 2 OF 2
MFG. APPR.	JFS		TITLE	SCALE
APPROVED	SAD		JACK ASSEMBLY INSPECTIONS NTS	
DE APPR.	N/A			
DATE	22.07.20		THIRD ANGLE PROJECTION	<small>COPYRIGHT © 2022 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>